

```
META-INF/executor-spring.xml,\
             META-INF/audit-spring.xml,\
             META-INF/cluster-spring.xml,\
             META-INF/editor-spring.xml,\
             META-INF/jcr-spring.xml,\
             META-INF/ldap-spring.xml,\
             {\tt META-INF/messaging-core-spring.xml,} \\
20
             META-INF/messaging-misc-spring.xml,\
             META-INF/mobile-device-spring.xml,\
             META-INF/notifications-spring.xml,\
             META-INF/poller-spring.xml,\
             META-INF/rules-spring.xml,\
             META-INF/scheduler-spring.xml,\
             META-INF/scripting-spring.xml,\
             META-INF/search-spring.xml,\
             META-INF/workflow-spring.xml,\
30
             META-INF/counter-spring.xml,\
             META-INF/mail-spring.xml,\
             META-INF/portal-spring.xml,\
             META-INF/portlet-container-spring.xml,\
             META-INF/staging-spring.xml,\
             {\tt META-INF/virtual-layouts-spring.xml,} \\
36
             #META-INF/dynamic-data-source-spring.xml,\
             #META-INF/shard-data-source-spring.xml,\
             #META-INF/memcached-spring.xml,\
             #META-INF/monitoring-spring.xml,\
             META-INF/ext-spring.xml
Different DB spring properties hosted with ♥ by GitHub
                                                                             view raw
```

If you notice the order of xml file loading in portal.properties file, then you will find that the last file is ext-spring.xml is loaded. So we will now **create ext-spring.xml** and putting all transaction,datasource and sessionfactory related changed on that file as below:

```
<?xml version="1.0"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
    xmlns:aop="http://www.springframework.org/schema/aop" xmlns:context="http:/
        xmlns:tx="http://www.springframework.org/schema/tx" xmlns:xsi="http://w
        xsi:schemaLocation="http://www.springframework.org/schema/aop http://ww
        <aop:config>
                <aop:pointcut id="transactionOperation" expression="bean(*Servi</pre>
                <aop:advisor advice-ref="transactionAdvice" pointcut-ref="trans</pre>
        </aop:config>
        <bean id="basePersistence" abstract="true">
                cproperty name="dataSource" ref="anotherDataSource" />
                cproperty name="sessionFactory" ref="anotherSessionFactory" />
        </bean>
        \verb|\climatrix| \verb| class="org.springframework.transaction.int| \\
                cproperty name="transactionManager" ref="anotherTransactionManager"
                cproperty name="transactionAttributeSource">
                        <bean class="org.springframework.transaction.annotation"</pre>
                                 <constructor-arg>
                                         <bean class="com.liferay.portal.spring.</pre>
                                 </constructor-arg>
                        </bean>
                </property>
```

```
</bean>
             <bean id="anotherHibernateSessionFactory" class="com.liferay.portal.spr</pre>
                      cproperty name="dataSource" ref="anotherDataSource" />
             </bean>
             <bean id="anotherSessionFactory" class="com.liferay.portal.dao.orm.hibe</pre>
                      cproperty name="sessionFactoryImplementor" ref="anotherHibernat"
             </bean>
             <bean id="anotherTransactionManager" class="org.springframework.orm.hit</pre>
                      cproperty name="dataSource" ref="anotherDataSource" />
                      cproperty name="globalRollbackOnParticipationFailure" value="fa
                      roperty name="sessionFactory" ref="anotherHibernateSessionFac
             </bean>
             <bean id="anotherDataSource" class="org.springframework.jdbc.datasource"</pre>
                      roperty name="targetDataSource">
                              <bean class="com.liferay.portal.dao.jdbc.util.DataSourc</pre>
                                       cproperty name="propertyPrefix" value="jdbc.tes
                      </property>
         </bean>
     </beans>
Different DB ext-spring.xml hosted with ♥ by GitHub
                                                                               view raw
```

3) Now the last and the final step you need to do is that you need to modify the existing service.xml as follows:-

The data-source value specifies the data source target that is set to the persistence class. The default value is the Liferay data source. This is used in conjunction with session-factory.

The **session-factory** value specifies the session factory that is set to the persistence class. The default value is the Liferay session factory. This is used in conjunction with data-source.

The **tx-manager** value specifies the transaction manager that Spring uses. The default value is the Spring Hibernate transaction manager that wraps the Liferay data source and session factory.

If the **local-service** value is true, then the service will generate the local interfaces for the service. The default value is false

If the **remote-service** value is true, then the service will generate remote interfaces for the service. The default value is true.

You can use the local-service and remote-service attribute according to your needs.

You are now connected with your external DB.

Put your Suggestions/Comments.

Thanks for Reading !!!

Posted by Amit Doshi at 1:16 PM

G+1 +6 Recommend this on Google

Labels: db + liferay, different database in liferay, external db in liferay

## 9 comments:



#### Ajay Saharan July 24, 2013 at 7:02 AM

We are using different database connection. We are able to connect with this db successfully. But when we try to fetch with primary key fields like FooLocalServiceUtil.getFoo(1)); we are able to get results.

But when we try to fetch by any other finder add by us in entity it's not giving results.

Reply



**Amit Doshi** July 25, 2013 at 6:40 AM

It should be, we are implemented the above code in my project and it is live now.

Please check once again from your end each and every entry of ext-spring.xml file and let me know if you still find any issue.

Reply



## StationI Liferay July 29, 2013 at 5:56 AM

Does liferay create tables in the different database which we mapped through the data-source(here testE) or to the Liferay's default database(here liferay612)?

#### Replies



#### **Amit Doshi** August 2, 2013 at 12:37 AM

No. It will not create table in external schema. You need to manually create it with the sql file that was generated with the help of Service Builder

Reply



## Aneal November 14, 2013 at 1:21 AM

I have implemented multitenant with shards. Everything is fine exception transaction management. The transaction is not rolled back in multitenant shards. However, it is rolled back in case of without murltitenat shards. Does using multitenant shards changes properties of Transaction manager? How can this be solved?

#Spring configuration files to be loadded. By adding shard-data-source-spring.xml in the list database sharding feature

#can be enabled spring.configs=\

META-INF/base-spring.xml,\

 $META\text{-}INF/hibernate-spring.xml,} \\$ 

META-INF/infrastructure-spring.xml,\

META-INF/management-spring.xml,\

 $META\text{-}INF/util\text{-}spring.xml, \\ \\ \\ \\$ 

META-INF/jpa-spring.xml,\

META-INF/executor-spring.xml,\

META-INF/audit-spring.xml,\

 $META\text{-}INF/cluster\text{-}spring.xml, \\ \\ \\ \\$ 

 $META\text{-}INF/editor\text{-}spring.xml, \\ \\ \\ \\$ 

META-INF/jcr-spring.xml,\

 $META\text{-}INF/Idap\text{-}spring.xmI, \\ \\ \\ \\$ 

 $META\text{-}INF/messaging-core-spring.xml, \\ \\ \\ \\$ META-INF/messaging-misc-spring.xml,\

META-INF/mobile-device-spring.xml,\

META-INF/notifications-spring.xml,\

META-INF/poller-spring.xml,\

META-INF/rules-spring.xml,\

META-INF/scheduler-spring.xml,\

 $META\text{-}INF/scripting\text{-}spring.xml, \\ \\ \\ \\$ 

META-INF/search-spring.xml,\

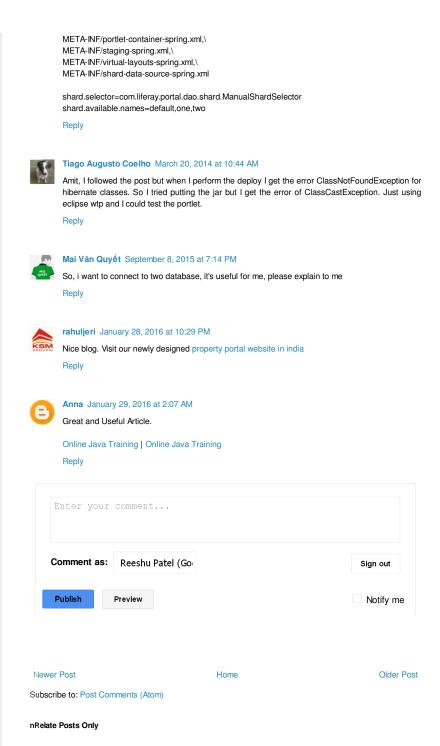
 $META\text{-}INF/workflow\text{-}spring.xml, \\ \\ \\ \\$ 

META-INF/counter-spring.xml,\

META-INF/mail-spring.xml,\

META-INF/portal-spring.xml,\

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# About Me



Amit Doshi
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By profession, I am working as a Senior CMS Consultant with CIGNEX DATAMATICS,

Ahmedabad. I am Having around 4+ years of rich experience working and providing solutions for Java & Liferay . Ive got recognition by Liferay Organization with Liferay Contributor 2012 Award. Check out Liferay Website: http://www.liferay.com/community/special-projects/contributor-awards-2012. Amit Doshi has been involved with the Liferay Community since 2010. He initially started with version 5.2 and is now using Liferay 6.1. He is a member of Liferay India User Group(LIUG). He loves the open source concept and always admires it. He is

always ready to help & contribute to the Liferay

community via forums or directly with individual whenever needed. He has also started a Liferay blog, to which he is constantly adding useful stuff regarding Liferay. He always trys to learn new things out of Liferay. He is leading Liferay projects as a Team Lead. He has completed his Bachelors in Computer Science from Saurashtra University in 2008. Amit Doshi has worked in many different kinds of Liferay projects in various industries such as Healthcare, Intranet Portal, Educational Portal, Media, etc.

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